

SEQUENCE LISTING

<110> Coleman, Timothy P.
Peterson, Darrell L.

<120> Advanced Antigen Presentation Platform

<130> 05270001ta

<140> 09/495,947

<141> 2000-02-02

<150> US 60/118,526

<151> 1999-02-02

<160> 24

<170> PatentIn Ver. 2.1

<210> 1

<211> 262

<212> PRT

<213> Duck hepatitis B virus

<400> 1

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Asp	Asp	Phe	Phe	Pro	Lys	Ile	Asp	Asp	Leu	Val	Arg	Asp	Ala	Lys	Asp
			20					25					30		

Ala	Leu	Glu	Pro	Tyr	Trp	Arg	Ser	Asp	Ser	Ile	Lys	Lys	His	Val	Leu
		35					40					45			

Ile	Ala	Thr	His	Phe	Val	Asp	Leu	Ile	Glu	Asp	Phe	Trp	Gln	Thr	Thr
		50				55					60				

Gln	Gly	Met	His	Glu	Ile	Ala	Glu	Ala	Leu	Arg	Ala	Val	Ile	Pro	Pro
65					70					75				80	

Thr	Thr	Thr	Pro	Val	Pro	Ala	Gly	Tyr	Leu	Ile	Gln	His	Glu	Glu	Ala
				85					90					95	

Glu	Glu	Ile	Pro	Leu	Gly	Asp	Leu	Phe	Lys	His	Gln	Glu	Glu	Arg	Ile
			100					105					110		

Val	Ser	Phe	Gln	Pro	Asp	Tyr	Pro	Ile	Thr	Ala	Arg	Ile	His	Ala	His
			115					120				125			



Leu Lys Ala Tyr Ala Lys Ile Asn Glu Glu Ser Leu Asp Arg Ala Arg
 130 135 140

Arg Leu Leu Trp Trp His Tyr Asn Cys Leu Leu Trp Gly Glu Ala Asn
 145 150 155 160

Val Thr Asn Tyr Ile Ser Arg Leu Arg Thr Trp Leu Ser Thr Pro Glu
 165 170 175

Arg Tyr Arg Gly Arg Asp Ala Pro Thr Ile Glu Ala Ile Thr Arg Pro
 180 185 190

Ile Gln Val Ala Gln Gly Gly Arg Lys Thr Ser Ser Gly Thr Arg Lys
 195 200 205

Pro Arg Gly Leu Glu Pro Arg Arg Arg Lys Val Lys Thr Thr Val Val
 210 215 220

Tyr Gly Arg Arg Arg Ser Lys Ser Arg Asp Arg Arg Ala Pro Ser Pro
 225 230 235 240

Gln Arg Ala Gly Ser Pro Leu Pro Arg Ser Ser Ser Ser His Arg Arg
 245 250 255

Ser Pro Ser Pro Arg Lys
 260

<210> 2

<211> 786

<212> DNA

<213> Duck hepatitis B virus

<400> 2

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 gattcaataa agaaacatgt tttaattgca actcactttg tggatcttat tgaagacttc 180
 tggcaaaacta ctccagggtat gcatgaaata gctgaagcct taagagcagt tataccacct 240
 actacaacac cagttcccgc aggatattctg attcagcacg aagaggctga ggagattcct 300
 ctggggagatt tatttaaaaca tcaggaagaa aggatagtta gtttccaacc ggattatcct 360
 attactgcac gaattcatgc acacctgaaa gcttatgcaa agattaacga ggaatcactg 420
 gatagggcta ggagattgct ttggtggcat tacaattgtt tactgtgggg agaagctaac 480
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 cgagatgccc caaccattga agcaatcact agaccaatcc aagtggctca gggaggcaga 600
 aaaacatctt cgggtactag aaaacctcgt ggactcgaac ctagaagaag aaaagttaaa 660
 accacagttg tctatgggag aagacgttca aagtcaggg ataggagagc cccttcaccc 720
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<210> 3
<211> 20
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence:
immunostimulating oligonucleotides

<400> 3
tccatgtcgc tcctgatgct

20

<210> 4
<211> 20
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence:
immunostimulating oligonucleotides

<400> 4
tccatgtcgt tcctgatgct

20

<210> 5
<211> 24
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence:
immunostimulating oligonucleotides

<400> 5
tcgtcgtttt gtcgttttgt cggt

24

<210> 6
<211> 20
<212> DNA
<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence:
immunostimulating oligonucleotides

<400> 6
tcgtcgttgt cgttgtcgtt

20

<210> 7
<211> 24
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence:
immunostimulating oligonucleotides

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tcgtcgtttt gtcgttttgt cgtt

24

<210> 8
<211> 22
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence:
immunostimulating oligonucleotides

<400> 8
tcgtcgttgt cgttttgtcg tt

22

<210> 9
<211> 21
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence:
immunostimulating oligonucleotides

<400> 9
gcgtgcgttg tcgttgctgt t

21

<210> 10
<211> 21

<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence:
immunostimulating oligonucleotides

<400> 10
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21

<210> 11
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<212> DNA
<213> Artificial Sequence

<220>
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immunostimulating oligonucleotides

<400> 11
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19

<210> 12
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<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence:
immunostimulating oligonucleotides

<400> 12
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14

<210> 13
<211> 20
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence:
immunostimulating oligonucleotides

<400> 13
tcctgctgtt ccttgcgtt

20

<210> 14
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<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence:
immunostimulating oligonucleotides

<400> 14
tcctgtcggt tttgtcggt

20

<210> 15
<211> 21
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence:
immunostimulating oligonucleotides

<400> 15
tcgtcgctgt ctgcccttct t

21

<210> 16
<211> 21
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence:
immunostimulating oligonucleotides

<400> 16
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21

<210> 17
<211> 24
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence:

immunostimulating oligonucleotides

<400> 17
tcgtcgtttt gtcgttttgt cggt

24

<210> 18
<211> 22
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence:
immunostimulating oligonucleotides

<400> 18
tcgtcgttgt cgttttgtcg tt

22

<210> 19
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<212> DNA
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<220>
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immunostimulating oligonucleotides

<400> 19
tgtcgttgtc gttgtcggt

19

<210> 20
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<220>
<223> Description of Artificial Sequence:
immunostimulating oligonucleotides

<400> 20
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6

<210> 21
<211> 239
<212> PRT

<213> Duck hepatitis B virus

<400> 21

Met Asp Ile Asn Ala Ser Arg Ala Leu Ala Asn Val Tyr Asp Leu Pro
1 5 10 15

Asp Asp Phe Phe Pro Lys Ile Asp Asp Leu Val Arg Asp Ala Lys Asp
20 25 30

Ala Leu Glu Pro Tyr Trp Arg Ser Asp Ser Ile Lys Lys His Val Leu
35 40 45

Ile Ala Thr His Phe Val Asp Leu Ile Glu Asp Phe Trp Gln Thr Thr
50 55 60

Gln Gly Met His Glu Ile Ala Glu Ala Leu Arg Ala Val Ile Pro Pro
65 70 75 80

Thr Thr Thr Pro Val Pro Ala Gly Tyr Leu Ile Gln His Glu Glu Ala
85 90 95

Glu Glu Ile Pro Leu Gly Asp Leu Phe Lys His Gln Glu Glu Arg Ile
100 105 110

Val Ser Phe Gln Pro Asp Tyr Pro Ile Thr Ala Arg Ile His Ala His
115 120 125

Leu Lys Ala Tyr Ala Lys Ile Asn Glu Glu Ser Leu Asp Arg Ala Arg
130 135 140

Arg Leu Leu Trp Trp His Tyr Asn Cys Leu Leu Trp Gly Glu Ala Asn
145 150 155 160

Val Thr Asn Tyr Ile Ser Arg Leu Arg Thr Trp Leu Ser Thr Pro Glu
165 170 175

Arg Tyr Arg Gly Arg Asp Ala Pro Thr Ile Glu Ala Ile Thr Arg Pro
180 185 190

Ile Gln Val Ala Gln Gly Gly Arg Lys Thr Ser Ser Gly Thr Arg Lys
195 200 205

Pro Arg Gly Leu Glu Pro Arg Arg Arg Lys Val Lys Thr Thr Val Val
210 215 220

Tyr Gly Arg Arg Arg Ser Lys Ser Arg Asp Arg Arg Ala Pro Ser
225 230 235

<210> 22
 <211> 717
 <212> DNA
 <213> Duck hepatitis B virus

<400> 22
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 gattcaataa agaaacatgt tttaattgca actcactttg tggatcttat tgaagacttc 180
 tggcaaaacta ctcagggtat gcatgaaata gctgaagcct taagagcagt tataccacct 240
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 gatagggcta ggagattgct ttggtggcat tacaattggt tactgtgggg agaagctaac 480
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<210> 23
 <211> 214
 <212> PRT
 <213> Duck hepatitis B virus

<400> 23
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 20 25 30
 Ala Leu Glu Pro Tyr Trp Arg Ser Asp Ser Ile Lys Lys His Val Leu
 35 40 45
 Ile Ala Thr His Phe Val Asp Leu Ile Glu Asp Phe Trp Gln Thr Thr
 50 55 60
 Gln Gly Met His Glu Ile Ala Glu Ala Leu Arg Ala Val Ile Pro Pro
 65 70 75 80
 Thr Thr Thr Pro Val Pro Ala Gly Tyr Leu Ile Gln His Glu Glu Ala
 85 90 95
 Glu Glu Ile Pro Leu Gly Asp Leu Phe Lys His Gln Glu Glu Arg Ile
 100 105 110

Val Ser Phe Gln Pro Asp Tyr Pro Ile Thr Ala Arg Ile His Ala His
 115 120 125

Leu Lys Ala Tyr Ala Lys Ile Asn Glu Glu Ser Leu Asp Arg Ala Arg
 130 135 140

Arg Leu Leu Trp Trp His Tyr Asn Cys Leu Leu Trp Gly Glu Ala Asn
 145 150 155 160

Val Thr Asn Tyr Ile Ser Arg Leu Arg Thr Trp Leu Ser Thr Pro Glu
 165 170 175

Arg Tyr Arg Gly Arg Asp Ala Pro Thr Ile Glu Ala Ile Thr Arg Pro
 180 185 190

Ile Gln Val Ala Gln Gly Gly Arg Lys Thr Ser Ser Gly Thr Arg Lys
 195 200 205

Pro Arg Gly Leu Glu Pro
 210

<210> 24

<211> 642

<212> DNA

<213> Duck hepatitis B virus

<400> 24

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 tggcaaaacta ctcagggtat gcatgaaata gctgaagcct taagagcagt tataccacct 240
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 ctgggagatt tatttaaaaca tcaggaagaa aggatagtta gtttccaacc ggattatcct 360
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 gatagggcta ggagattgct ttggtggcat tacaattggt tactgtgggg agaagctaac 480
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 aaaacatctt cgggtactag aaaacctcgt ggactcgaac ct 642